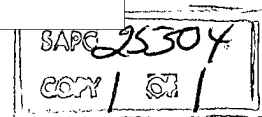


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# WESTINGHOUSE ELECTRIC CORPORATION



FRIENDSHIP  
INTERNATIONAL AIRPORT  
BALTIMORE 27, MD.

14 March 1958

25X1

SUBJECT: Contract TA-3034  
Westinghouse Reference AAD-30465  
Monthly Progress Report #9

25X1

In accordance with Item 3 of the subject contract, forwarded herewith are three (3) copies of Monthly Progress Report #9 on the Terrain Avoidance Radar System for the period from 31 January 1958 to 28 February 1958.

2 copies  
to  
FSS/APD  
17 mar 58

25X1

for Sales Engineer

25X1

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Encl #1  
SAPC 25504  
COPY 1 OF 3

MONTHLY PROGRESS REPORT #9

on the

TERRAIN AVOIDANCE RADAR SYSTEM

For the period from

31 January 1958 to 28 FEBRUARY 1958

G.O. AAD-30465

NOTICE: This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C., Section 793-794. The transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

WESTINGHOUSE ELECTRIC CORP.

Air Arm Division

P.O. BOX 746

Baltimore 3, Maryland

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CONFIDENTIAL

March 5, 1958

MONTHLY PROGRESS REPORT #9

TERRAIN AVOIDANCE RADAR SYSTEM

PROGRESS FOR THE MONTH OF FEBRUARY 1958

A breadboard system has been assembled in the roof laboratory. A borrowed antenna with a beamwidth of approximately  $2^{\circ} \times 2^{\circ}$  was used to scan in the vertical plane only. From the location a radio tower can be seen on the horizon about 7 miles away. This target was observed as a strong target through a heavy snowstorm. An evaluation of the return from terrain has not been made yet. The system was only operated a short time due to air pressure leaks and trouble with the indicator. These were found to be due to defective components and faulty connections.

Construction of the units in the Model Shop continues. The pre-amp; post amp, AFC and modulator have been completed.

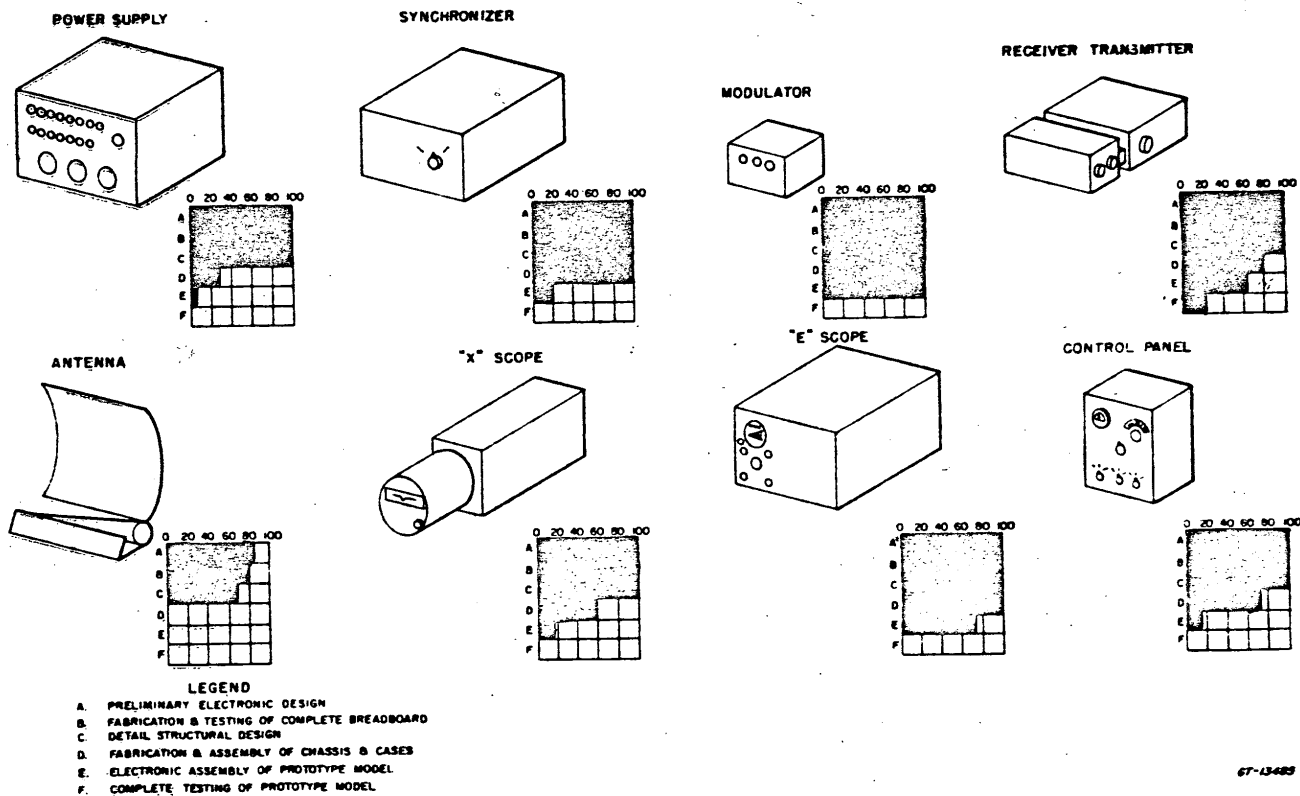
Bench testing of the pre-amp and post-amp was completed earlier. Testing of the AFC and modulator has been started.

The  $1.5^{\circ}$  rotary feedhorn antenna is complete except for the pillbox which is nearly completed in the Model Shop. Design of the reflector cannot be started until the complete horn has been tested. The design of a parallel plate horn with a curved backwall for the  $2^{\circ}$  antenna has been completed and released to the Model Shop.

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STATUS OF TERRAIN AVOIDANCE RADAR FEB 28, 1958



67-13483